Fig. 1

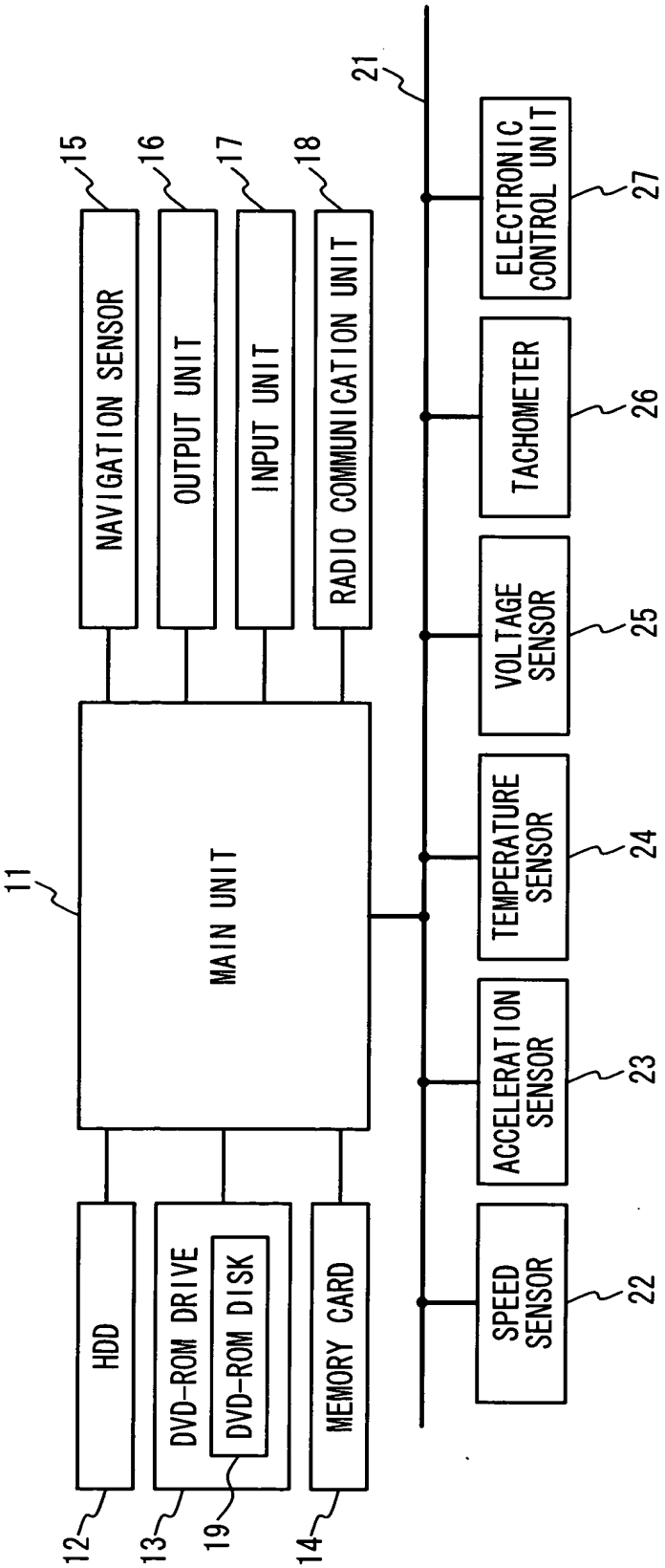

10
11
MAIN UNIT
21
15
NAVIGATION SENSOR
16
OUTPUT UNIT
17
INPUT UNIT
18
RADIO COMMUNICATION UNIT
27
ELECTRONIC CONTROL UNIT
26
TACHOMETER
25
VOLTAGE SENSOR
24
TEMPERATURE SENSOR
23
ACCELERATION SENSOR
22
SPEED SENSOR
12
HDD
13
DVD-ROM DRIVE
19
DVD-ROM DISK
14
MEMORY CARD

Fig. 2

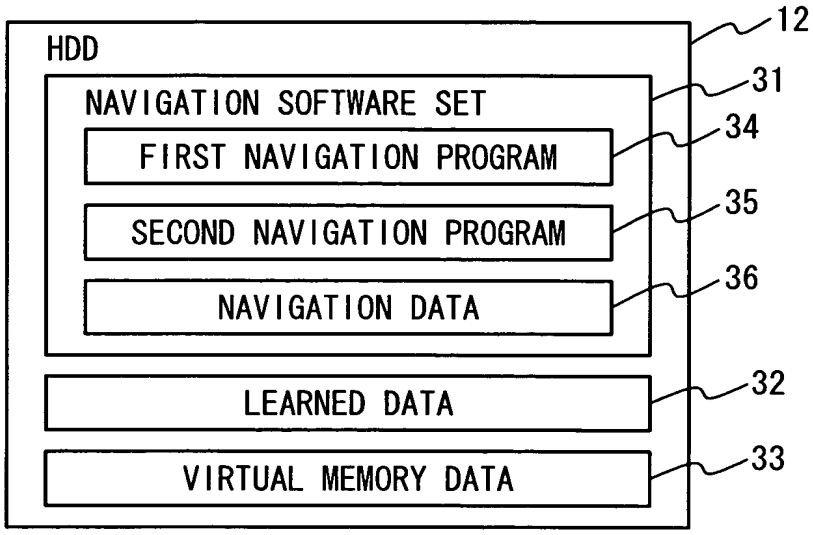

HDD
12
NAVIGATION SOFTWARE SET
31
FIRST NAVIGATION PROGRAM
34
SECOND NAVIGATION PROGRAM
35
NAVIGATION DATA
36
LEARNED DATA
32
VIRTUAL MEMORY DATA
33

Fig. 3

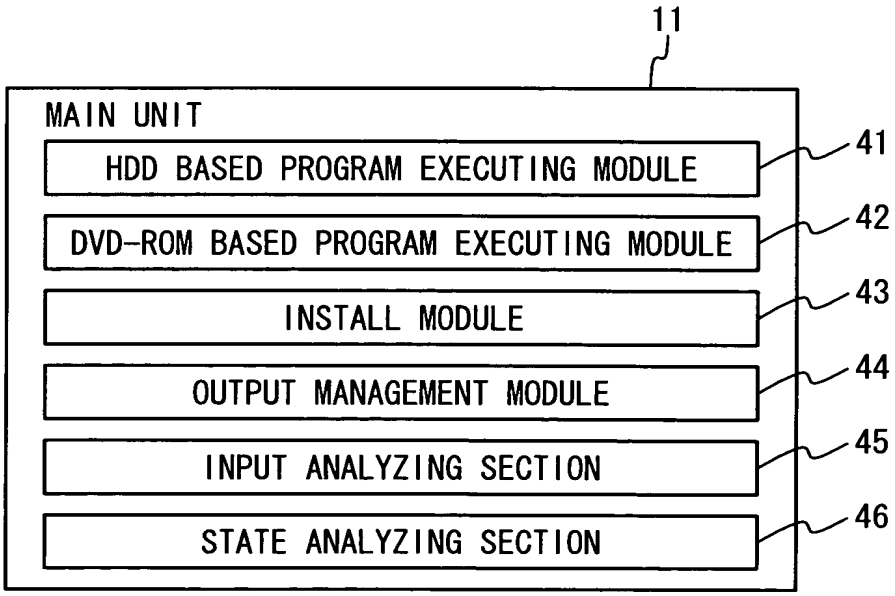

11
MAIN UNIT
HDD BASED PROGRAM EXECUTING MODULE
41
DVD-ROM BASED PROGRAM EXECUTING MODULE
42
INSTALL MODULE
43
OUTPUT MANAGEMENT MODULE
44
INPUT ANALYZING SECTION
45
STATE ANALYZING SECTION
46

Fig. 4

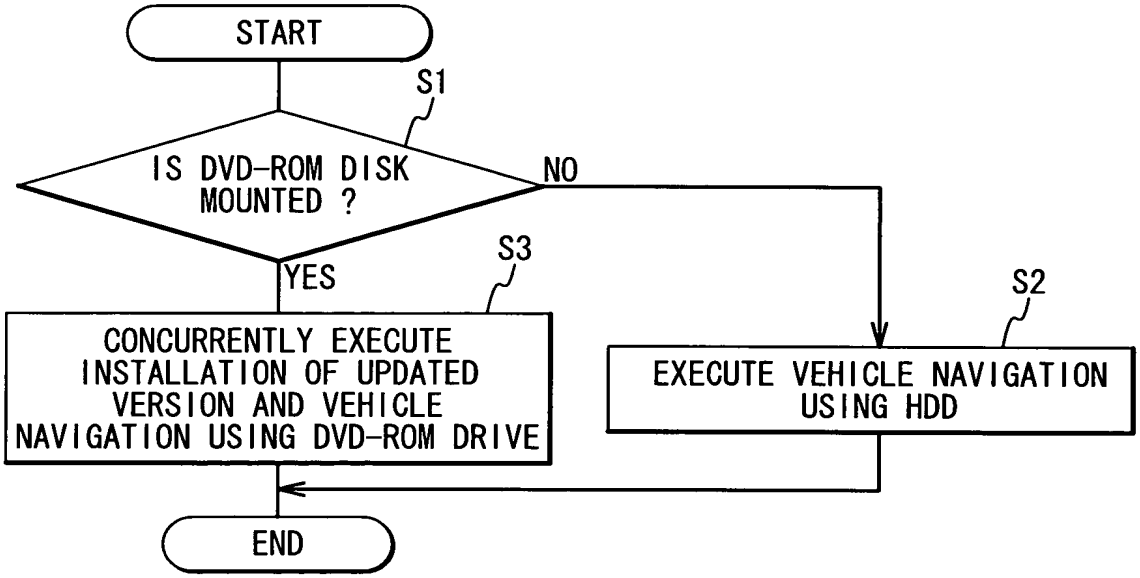

START
S1
IS DVD-ROM DISK MOUNTED ?
NO
YES
S3
CONCURRENTLY EXECUTE INSTALLATION OF UPDATED VERSION AND VEHICLE NAVIGATION USING DVD-ROM DRIVE
S2
EXECUTE VEHICLE NAVIGATION USING HDD
END

Fig. 5

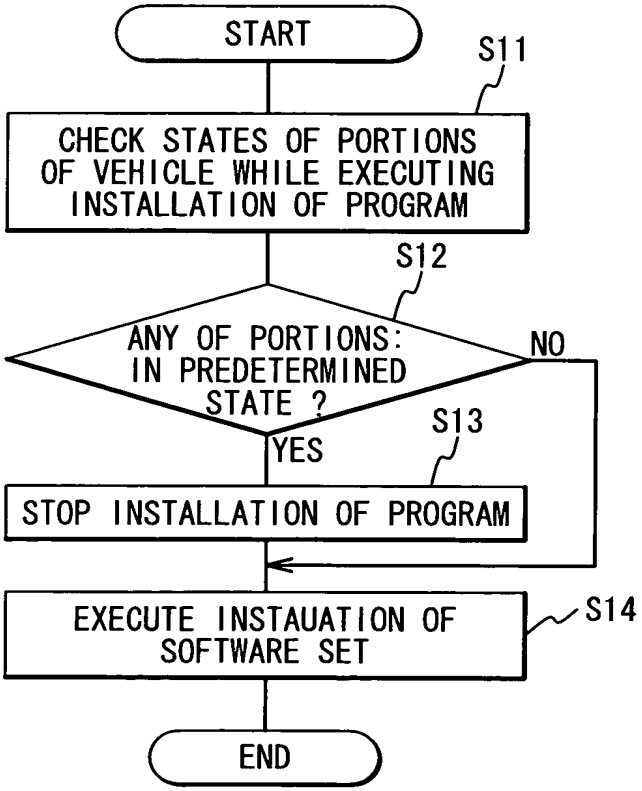

START
S11
CHECK STATES OF PORTIONS OF VEHICLE WHILE EXECUTING INSTALLATION OF PROGRAM
S12
ANY OF PORTIONS: IN PREDETERMINED STATE ?
NO
YES
S13
STOP INSTALLATION OF PROGRAM
EXECUTE INSTAUATION OF SOFTWARE SET
S14
END

Fig. 6

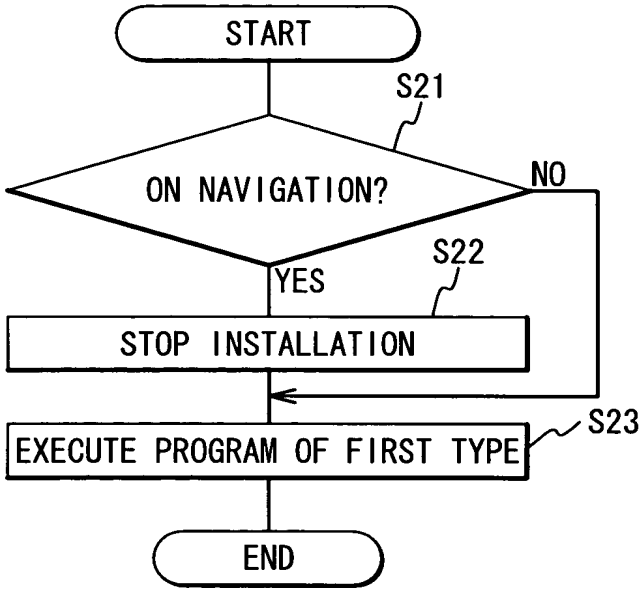
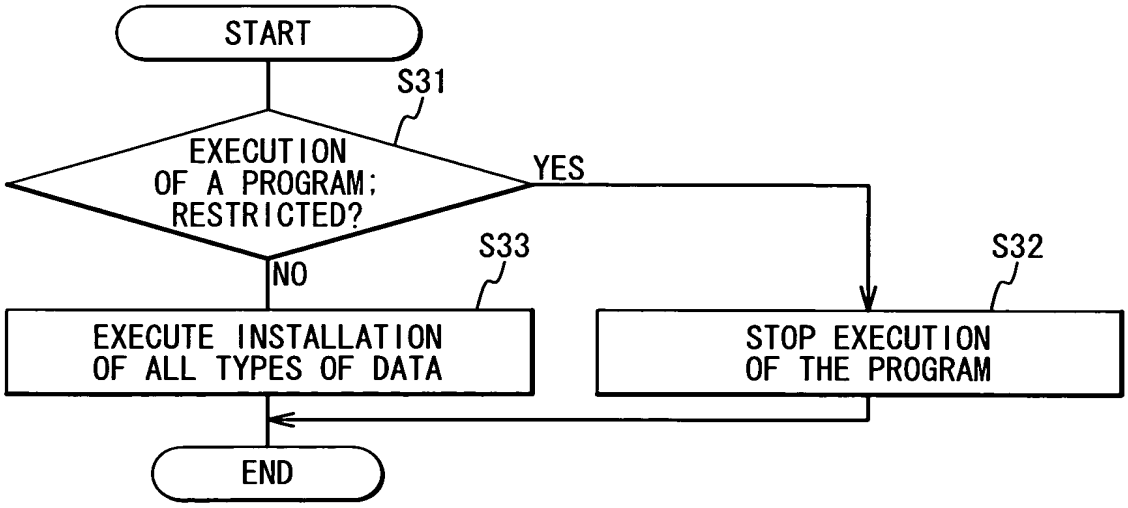

START
S21
ON NAVIGATION?
NO
YES
S22
STOP INSTALLATION
EXECUTE PROGRAM OF FIRST TYPE
S23
END

Fig. 7


START
S31
EXECUTION OF A PROGRAM; RESTRICTED?
YES
NO
S33
S32
EXECUTE INSTALLATION OF ALL TYPES OF DATA
STOP EXECUTION OF THE PROGRAM
END